The Most Reliable Portable Printers®

MICROFLASH 2T*e*

User's Guide

microFlash 2t*e* Printer: Top View

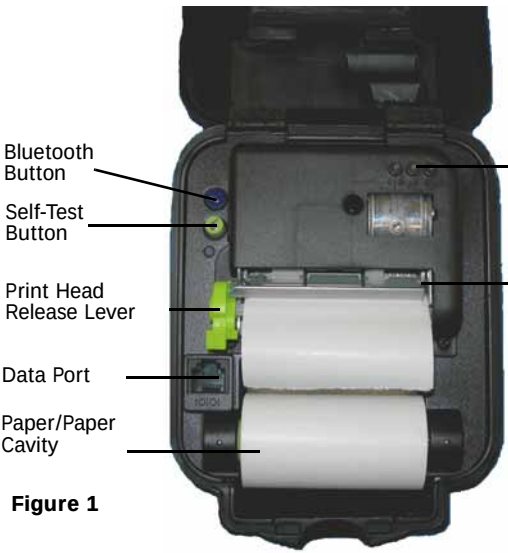
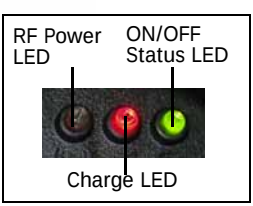


Figure 1

Figure 2



NOTE: When the cable plug is inserted into the Power Port, the cable plug must lay horizontally to the bottom of the surface of the case.

Using the Battery: General Guidelines

If the printer has not been used for a long period of time, it may be necessary to recharge the battery. For more information, see *Charging the Battery on page 2*.

Charging the Battery

If the battery is low when the printer “wakes up,” the printer sounds three short beeps. Plug the AC Adapter into an appropriate power source and into the Power Port on the printer. The Charge LED will flash and progress from red (when the battery is very low in power) to orange, and then to a solid green when the battery is fully charged. A complete charge takes approximately 2.5 to 3.5 hours.

Note: To obtain full battery capacity, a new battery must cycle through two to three complete depletions and recharges.

Note: To restart a charge, unplug the power cord. Wait 30 seconds, then replug the power cord.

Determining Battery Condition

To determine the battery’s condition, print a self-test. For more information, see *Printing a Self-Test on page 4*. The battery voltage varies between 5.8 and 8.0 volts.

Caution: There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Caution: The operating temperature of this portable printer is 50° C. However, the operating temperature when used with O'Neil power supply for charging the portable printer is limited to 40° C. Please charge the printer in a suitable location that meets this temperature requirement.

Caution: (For US/Canada) Please only use the O'Neil part number 220240-100 power supply with this product.

Installing Paper

1. Insert a roll of paper with the end of the roll exiting from the bottom of the paper cavity (Figure 3).
2. Open the print head by raising the green, print head release lever until it stops (Figure 4).

Figure 3

Figure 4

3. Wake up the printer by briefly pressing the green, self-test button (Figure 5).

4. Feed the end of the paper under the roller. The paper automatically feeds under the roller and exits from the top of the print head. Verify the paper exits straight.

Figure 5

5. Lower the green, print head release lever (Figure 6).
6. Feed the paper through the printer's cover (Figure 7).

Figure 6

Figure 7

7. Close and latch the printer's cover.
8. Tear off any excess media.

Printing a Self-Test

1. After installing the paper, open the printer's cover.
2. Press and hold the green, self-test button for approximately five seconds until printing begins.
3. After printing begins, release the green, self-test button.

Clearing Linerless Paper Jams

Note: The following applies to printers that are designed for linerless paper.

A paper jam may occur if an O'Neil printer with linerless paper installed is left in a cold environment without being used for an extended period of time (such as overnight).

Removing a Paper Jam

Note: Do not use a knife to fix the paper jam. This may cause damage to the printer roller underneath the paper.

1. Open the print head by raising the print head release lever until it is fully open. Do not stop at the partial open position.
2. Roll the media tightly onto the spool.

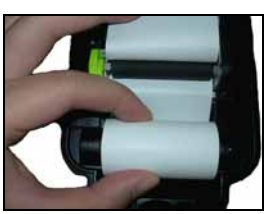


Figure 8

Avoiding a Paper Jam

There are two options to help avoid paper jams with linerless paper.

Remove the Linerless Paper from the Print Head

If the printer is going to be in a cold environment for a long period of time, remove the linerless paper from the print head. The paper can remain in the printer.

Figure 9

Advance the Paper

When the printer is turned on, hold the paper and then advance the paper. Verify the paper exits the print head straight.

Figure 10

Figure 11

Configuring the Printer

The printer has many configurable settings. To configure or upgrade firmware, download the latest Windows configuration program at www.oneilprinters.com.

Using Printer Data Cables

1. Select the appropriate cable for use with the host/ device you are using.
2. Insert the plug into the printer data port (Figure 12).

Figure 12

3. Lead the cable through the notch on the outside of the printer cover.
4. With the cable exiting the front of the printer, close and latch the printer cover.

Note: When closing the printer, be cautious of the cable that is exiting to prevent pinching of the cable. Remove the cable when the printer is not in use.

Figure 13

Using Bluetooth

Note: The following information applies to printers with Bluetooth capabilities.

Radio printers are configured with default factory settings. To determine your printer's radio configuration, print a self-test. (For more information, see *Printing a Self-Test on page 4*.) If you have multiple printers, configure them specifically for use in your environment.

For proper system operation, set the following parameters on your printer and host computer:

Bluetooth Parameters

- Device Name
- Authentication
- Bondable
- Discoverable
- Connectable
- Encryption

For information on setting parameters, see *Configuring the Printer on page 6*. Contact your network administrator to verify the proper radio settings for your environment.

Using Buttons, LEDs, and Audio Indicators

Button Functions

Green Self-Test Button	
Short press	If printer is asleep; printer wakes up. If printer is awake; paper feeds.
Long press (press and hold for five seconds)	Prints a self-test.

Bluetooth Power Button	
Short press	If printer is asleep and RF power is off; printer wakes up and RF power is turned on. If printer is asleep and RF power is on; printer wakes up and RF power is turned off. If printer is awake and RF power is off; RF power is turned on. If printer is awake and RF power is on; RF power is turned off.

LED Indicators

Bluetooth LED Indicators

LED	Description
Blue flash - fast	RF power is on and printer is awake.
Blue flash - slow	RF power is on and printer is asleep.
Off	RF power is off.

Charge LED Indicators

LED	State of Charge	Action
Flashing Orange Flashing Red	Charge in progress.	Wait for the charge LED to turn green.
Green	Charge complete.	None.
Red flash - slow	Battery is too cold.	Change environment.
Red flash - fast	High temperature.	Change environment.
Red to orange solid	Battery voltage is very low.	Wait for solid red. Restart charge.
Red to orange flash - fast	Battery voltage is too high.	Replace battery.
Orange flash - slow	Charge timeout.	Restart battery charge.
Orange flash - fast	Internal error.	Reset printer.

Power LED Indicators

LED	State of Charge	Action
Solid green	Printer is on.	None.
Black	Printer is off.	Printer needs to be turned on using the Green self-test button. Printer needs to be recharged.

Audio Indicators

Beep(s)	Description	Action
1	Printer wakes up.	None.
2	Out of paper.	Install paper.
3	Low battery.	Charge battery.
1 short	RF power is on (when blue, RF power button is pressed and power was turned off).	None.
2 short	RF power is off (when blue, RF power button is pressed and power was turned on).	None.
1 long	Boot code is starting or restarting (when downloading new firmware).	Redownload firmware.
8 short	CRC error in firmware.	Redownload firmware.

CardReader Audio Indicators

Beep(s)	Description	Action
1 long	Bad read.	Reswipe card.
2 short	Good read.	None.

Using a CardReader

Note: The following information applies to printers installed with the CardReader option.

Figure 14

General Guidelines

To use the CardReader, swipe a card with the stripe facing toward the printer, then slowly move the card left or right in the CardReader slot.

For information on CardReader LED indicators and audio indicators, see *Using Buttons, LEDs, and Audio Indicators on page 10.*

Agency Approvals

FCC Notice

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been verified to comply with the limits for a class B computing device, pursuant to FCC Rules. Operation with non-approved equipment is likely to result in interference to radio and TV reception.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter within 20 centimeters.

INDUSTRY CANADA STATEMENT

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

CE

Applicable Directive

- 89/336/EEC, 73/23/EEC

Applicable Standards

- EN55022 (1998)
- EN55024 (1998)
- EN60950 (1992)

DECLARATION OF CONFORMITY

(According to ISO/IEC Guide 22 and EN 45014)
THE PRODUCT HEREWITH COMPLIES WITH THE REQUIREMENTS OF:

THE LOW-VOLTAGE DIRECTIVE 73/23/EEC.
THE EMC DIRECTIVE 89/336/EEC.

Manufacturer's Name:
O'Neil Product Development Inc.
8 Mason, Irvine, CA, 92618, USA

European Representative:
O'Neil Product Development ltd
6, Joplin Court, Crownhill
Keynes, UK MK8 0JP

Declares that the product listed below:

Product Type: ITE/Residential, Commercial, and Light Industrial
Product Name: MF2te
Model Number: MF2te

Options: Bluetooth Radio
Date Issued: 4/11/2008

Conforms to the following product specifications:

Safety: EN60950-1:2001 (IEC 60950-1, 2001)

EMI and EMC requirements

European Standards:
ETSI EN 300 328 V1.6.1 (2004-11)
ETSI EN 301 489-1 V1.4.1 (2006-08) - ERM
ETSI EN 301 489-17 V1.2.1 (2002-08)
EN 55022 : 1998 / CISPR Publication 22 : 1997, Class B Limits and Methods
EN 55024 : 1998 + A1:2001 +A2:2003 (CISPR 24) ITE – Immunity Characteristics – Limits and Methods of Measurement
EN 61000-4-2 : 1995+A1:1998 – Electrostatic Discharge
EN 61000-4-3 : 1996+A1:1998 – Radiated RF Field
EN 61000-4-4 : 1995 – Electrical Fast Transients
EN 61000-4-5 : 1995 – Voltage Surge
EN 61000-4-6 : 1996 – Conducted RF Field
EN 61000-4-8 : 1993 – Magnetic Field
EN 61000-4-11 : 1994 – Voltage Dips, Short Interruptions, And Variations
EN61000-3-2 : 2000 – Harmonic Current Emissions
EN61000-3-3 : 1995+A1:2001 – Voltage Fluctuation and Flicker

FCC-ID: TBD
Industry Canada: TBD

CE FC

This Device is a Bluetooth RF device intended for office and home use in all EU and EFTA member states: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Portugal, Spain, Sweden, United Kingdom and within EFTA Iceland, Liechtenstein, Norway and Switzerland.

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directives(s) and Standards(s).

Company Official: Ken Carlson

Position: Director of Electrical Engineering

Date: 4/11/2008

European Contact: O'Neil Product Development ltd. 6, Joplin Court, Crownhill Milton Keynes, UK MK8 0JP; Phone INT +44-1908-393300; Fax INT +44-1908-393400 www.oneilprinters.com

Copyright

Media Supplies

O'Neil Product Development, Inc. offers seven certified grades of paper for use in the printers. Our certified supplies are guaranteed compatible — this important qualification means that rigorous performance and image life testing have been performed. Quality supplies are key to obtaining optimal image quality and print performance. Quality supplies are also the key to extending the life of the printer. O'Neil Product Development strongly recommends using O'Neil Certified Supplies only.

For more information, contact O'Neil Printer Supplies Group at (949) 458-6400.

Maintenance Supplies

We recommend that you follow a regular maintenance schedule using our cleaning card (or cleaning kit when using linerless labels). O'Neil's cleaning cards are designed to effectively remove dirt and other contaminants from the thermal printhead, rollers, and paper path...resulting in a clean, crisp image output — every time. Our cleaning kits remove any adhesive residue (when using linerless labels) in addition to dirt and other contaminants.

For more information, contact O'Neil Printer Supplies Group at (949) 458-6400.

For more information

For information about using the printer, contact O'Neil at (949) 458-0500, or visit www.oneilprinters.com.

The Most Reliable Portable Printers®

World Headquarters
O'Neil Product Development
8 Mason
Irvine, CA 92618-2705
Ph: 949.458.0500
Fx: 949.458.0708

Europe
6 Joplin Court, Crownhill
Milton Keynes MK8 0JP
United Kingdom
Ph: +44 (0) 1908 635360
Fx: +44 (0) 1908 635361

WWW.ONEILPRINTERS.COM

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